## We Claim:

1. A high-temperature fuel cell, comprising:

a bipolar plate;

an electrolyte/electrode unit having an anode, a fuel-gas chamber formed between said bipolar plate and said anode; and

an oxidation buffer containing iron disposed in said fuel-gas chamber.

- 2. The high-temperature fuel cell according to claim 1, wherein said oxidation buffer has a porous surface.
- 3. The high-temperature fuel cell according to claim 1, wherein said oxidation buffer is a foil.
- 4. The high-temperature fuel cell according to claim 1, wherein said oxidation buffer is applied to said bipolar plate as a layer.
- 5. The high-temperature fuel cell according to claim 1, including a wire netting disposed in said fuel-gas chamber, and said oxidation buffer forms part of said wire netting.



6. The high-temperature fuel cell according to claim 1, wherein said bipolar plate is formed of  $CrFe5Y_2Q_31$